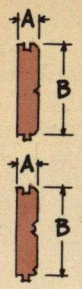
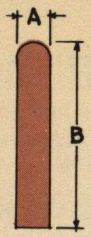


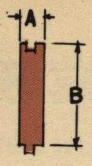
	A	B
5/8 × 4	9/16 ×	3 1/4
1 × 4	11/16 ×	3 1/4
1 × 6	23/32 ×	5 3/16

CEILING

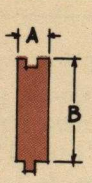


	A	B
1 1/4 × 8	1 1/16 ×	7 1/4
1 1/4 × 10	1 1/16 ×	9 1/4
1 1/4 × 12	1 1/16 ×	11 1/4

STEPPING



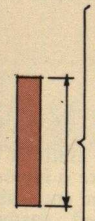
	A	B
1 × 3	25/32 ×	2 3/8
1 × 4	25/32 ×	3 1/4
1 × 6	25/32 ×	5 3/16



	A	B
1 1/4 × 3	1 1/16 ×	2 3/8
1 1/4 × 4	1 1/16 ×	3 1/4

FLOORING

5a
We



	1" THICK	1 1/4" THICK	2" THICK
2	3/4 × 1 5/8	1 1/16 × 1 5/8	1 5/8 × 1 5/8
3	3/4 × 2 5/8	1 1/16 × 2 5/8	1 5/8 × 2 5/8
4	3/4 × 3 1/2	1 1/16 × 3 1/2	1 5/8 × 3 1/2
5	3/4 × 4 1/2	1 1/16 × 4 1/2	1 5/8 × 4 1/2
6	3/4 × 5 1/2	1 1/16 × 5 1/2	1 5/8 × 5 1/2
8	3/4 × 7 1/4	1 1/16 × 7 1/4	1 5/8 × 7 1/4
10	3/4 × 9 1/4	1 1/16 × 9 1/4	1 5/8 × 9 1/4
12	3/4 × 11 1/4	1 1/16 × 11 1/4	1 5/8 × 11 1/4

FINISH

	TOP	BOTTOM	WIDTH	
1/2 × 6	3/16	15/32	5 1/2	CEDAR
5/8 × 8	3/16	9/16	7 1/2	
3/4 × 8	3/16	3/4	7 1/2	
3/4 × 10	3/16	3/4	9 1/2	
1/2 × 6	3/16	15/32	5 1/2	HEMLOCK & SPRUCE
3/4 × 8	3/16	3/4	7 1/4	
3/4 × 10	3/16	3/4	9 1/4	

BEVEL SIDING

WEST COAST LUMBER

GRADE GUIDE

Douglas Fir • West Coast Hemlock • Western Red Cedar • Sitka Spruce

★ A brief description of lumber graded according to rules of the West Coast Lumber Inspection Bureau

For more details on any of these grades see W.C.L.B. Rules #15

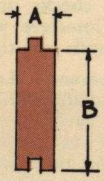
LIGHT FRAMING

2×2	1 5/8 × 1 5/8
2×3	1 5/8 × 2 5/8
2×4	1 5/8 × 3 5/8
3×3	2 5/8 × 2 5/8
3×4	2 5/8 × 3 5/8
4×4	3 5/8 × 3 5/8

JOISTS & PLANKS

2×6	1 5/8 × 5 1/2
2×8	1 5/8 × 7 1/2
2×10	1 5/8 × 9 1/2
2×12	1 5/8 × 11 1/2
3×6	2 5/8 × 5 1/2
3×8	2 5/8 × 7 1/2
3×10	2 5/8 × 9 1/2
3×12	2 5/8 × 11 1/2
4×6	3 5/8 × 5 1/2
4×8	3 5/8 × 7 1/2
4×10	3 5/8 × 9 1/2
4×12	3 5/8 × 11 1/2

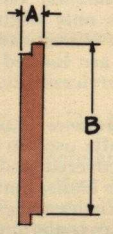
CENTER MATCH



	A	B
1×6	3/4 ×	5 1/4 *
1×8	3/4 ×	7 1/4 **
2×6	1 5/8 ×	5
3×6	2 5/8 ×	5
3×8	2 5/8 ×	7

*5 3/16 SEASONED
**7 SEASONED

SHIPLAP



	A	B
1×6	3/4 ×	5 1/8
1×8	3/4 ×	7 1/8
1×10	3/4 ×	9 1/8

BOARDS

1×2	3/4 × 1 5/8
1×3	3/4 × 2 5/8
1×4	3/4 × 3 5/8
1×6	3/4 × 5 1/2
1×8	3/4 × 7 1/2
1×10	3/4 × 9 1/2
1×12	3/4 × 11 1/2

A.I.A. FILE NO. 19-A-1

GRADES

Douglas Fir • West Coast Hemlock

Douglas Fir and West Coast Hemlock are manufactured in standard sizes and graded for *finish uses* where appearance is of primary importance and for *structural and construction uses* where strength is the first requirement.

DOUGLAS FIR (Coast Region) • Douglas fir from the West Coast is one of the strongest woods, pound for pound, that has ever been tested. It is the most serviceable of all American softwoods, being manufactured into more use items than any other lumber species. It has pronounced growth rings, is of a light reddish brown color. It is of better than average durability and weathers to a relatively dark gray with little or no sheen. It is a good insulating material, having a k value of approximately 1.0 BTU per inch of net thickness at 12% moisture content.

WEST COAST HEMLOCK • West Coast hemlock, sometimes called Western hemlock and Pacific Coast hemlock, is popular for construction uses because of its strength and for finish purposes because of its beautiful grain, freedom from pitch, and good wearing qualities. The wood is light colored and does not darken appreciably with age. It is a good insulating material, having a k value of approximately 0.89 BTU per inch of net thickness at 12% moisture content. It resists splintering, is strong for its weight and, when seasoned, resists warping and twisting.

FLOORING, SIDING AND OTHER FINISH GRADES

MILL 750 WC LB B-B-VG	B and Better, Vertical Grain	**Appearance:** Most pieces of this grade are entirely clear or have only a few minor and unimportant characteristics. "B and Better" pieces may contain occasional small pitch pockets or bark pockets.	**Uses:** Lumber of this grade is used where finest appearance is important on walls, floors, trim and cabinet work. May be stained, enameled, painted or given a natural finish.
MILL 750 WC LB C-VG	C, Vertical Grain	**Appearance:** Pieces of this grade are similar to "B and Better" in appearance but may contain slightly larger and more numerous pitch pockets and bark pockets. May contain an occasional small knot.	**Uses:** This grade is suitable for fine finish work both exterior and interior, with stained, painted, enameled or natural finish. Often used in combination with "B and Better".
MILL 750 WC LB D-VG	D, Vertical Grain	**Appearance:** Pieces of this grade may have one or more characteristics which are of such size or number that the piece is not of "C" grade. An occasional piece may contain a hole, knots or medium pitch pockets.	**Uses:** Lumber of this grade is recommended for trim, flooring and siding where excellent serviceability and good resistance to wear is desirable but appearance is not of primary importance.
MILL 750 WC LB C&BTR	C and Better, Flat Grain or Mixed Grain	**Appearance:** Most pieces of this grade are clear or have only a few minor and unimportant characteristics such as small pitch pockets or bark pockets and occasional small knots.	**Uses:** This is the top grade of flat grain finish, suitable for fine quality interior and exterior siding, paneling, trim and cabinet work. Noted for its pattern, it is slightly less wear resistant than vertical grain.
MILL 750 WC LB D	D, Flat Grain or Mixed Grain	**Appearance:** Pieces of this grade may have one or more characteristics which are of such size or number that the piece is not of "C and Better" grade, such as knots, limited holes, pitch pockets and stained wood. Most of the pieces are usable full length.	**Uses:** This grade is used for flooring, siding and sheathing where appearance is not of primary importance, but where economy and good serviceability are required.

BOARD GRADES

MILL 750 WC LB SEL-MER 3/4	Select Merchantable	**Appearance:** Lumber of this grade is well-manufactured, free from wane on the face, and contains only such limited characteristics as sound and tight knots, surface checks and torn grain which do not interfere with its usefulness where strength and tight surfaces are required.	**Uses:** Lumber of this grade is recommended for high class construction and for exposed interior and exterior use. Pieces are graded primarily for serviceability, but are usually of fine appearance.
MILL 750 WC LB CONST 3/4	Construction	**Appearance:** Lumber of this grade is sound and well-manufactured, containing only such characteristics as knots, small and well-scattered holes, checks, pitch streaks or wane, none of which has any important effect on high serviceability of the piece.	**Uses:** Lumber of this grade is recommended and widely used for subfloors, roof and wall sheathing, rough concrete forms and similar types of construction. Where they occur, characteristics are limited to assure a high degree of serviceability.
MILL 750 WC LB STAND 3/4	Standard	**Appearance:** Lumber of this grade contains only slightly larger characteristics than "Construction" boards. Characteristics are limited to assure a high degree of serviceability.	**Uses:** Lumber of this grade is recommended and usually used in conjunction with "Construction" boards for subfloors, roof and wall sheathing, rough concrete work and similar purposes.
MILL 750 WC LB UTIL 3/4	Utility	**Appearance:** Lumber of this grade is usually used in a structure where it will be covered and may contain numerous large knots, limited holes and other characteristics sufficiently scattered so that its utility is not impaired.	**Uses:** Lumber of this grade is used for sheathing, subflooring and other uses where appearance is not important but where strength, economy and good nail-holding qualities are desirable.
MILL 750 WC LB ECON	Economy	**Economy:** Lumber of this grade is suitable for crating, bracing, dunnage and temporary construction. Short lengths of higher grade material may be obtained from this grade by cutting. All characteristics which do not interfere with use of the piece full length are permitted.	

All Grade Stamps shown are registered, U. S. Patent Office.

LIGHT FRAMING GRADES 2" to 4" thick—2" to 4" wide

Select Structural 2" to 4" thick, 4" wide only.
(1900f Douglas fir) (1600f West Coast hemlock)

Lumber of this grade is recommended for the highest categories of construction, for engineered construction and for exposed interiors and exteriors where a combination of very high strength and finest appearance is demanded. This lumber is graded primarily for members stressed in bending, but may also be used as tension and compression members. Appropriate working stresses for all these uses are assigned to the grade.

Construction

Lumber of this grade is recommended and widely used for framing and studs, and for rafters and ceiling joists when a heavy load is not a factor. Pieces are of good appearance but are graded primarily for serviceability, as they are seldom used in exposed construction.

Standard

Lumber of this grade is recommended and usually used in conjunction with "Construction" light framing for framing and studs, and for rafters and ceiling joists when a heavy load is not a factor. As in the "Construction" grade, characteristics are limited to assure a high degree of serviceability.

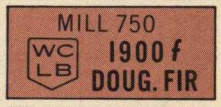
Utility

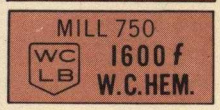
Lumber of this grade is recommended and widely used for studs and framing in light construction, and in other places where a combination of utility and economy is desirable. Where they occur, the natural characteristics of lumber are so limited that each piece of this grade may be used in the form in which it is shipped.

Economy

Lumber of this grade is suitable for crating, bracing, dunnage and temporary construction. Short lengths of higher grade material may be obtained from this grade by cutting. All characteristics which do not interfere with use of the piece full length are permitted.

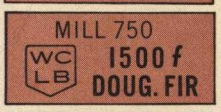
JOIST AND PLANK GRADES 2" to 4" thick—6" and wider





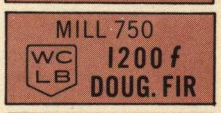
Select Structural (1900f Douglas fir) (1600f West Coast hemlock)

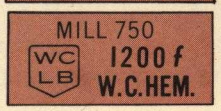
Lumber of this grade is recommended for the highest categories of construction, for engineered construction and for exposed interiors and exteriors where a combination of very high strength and finest appearance is demanded. It is used in trusses, for joists, planks, stringers, larger studs, posts, and other framing purposes. This lumber is graded primarily for members stressed in bending, but may also be used as tension and compression members. Appropriate working stresses for all these uses are assigned to the grade.



Construction (1500f)

Lumber of this grade is in great demand because of its excellent strength and appearance. In these respects it ranks only slightly below the "Select Structural" grade, and is recommended for similar uses wherever appearance is a less exacting factor but superior strength is a requirement. This lumber is graded primarily for members stressed in bending, but may also be used as tension and compression members. Appropriate working stresses for all these uses are assigned to the grade.

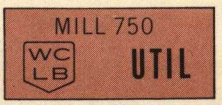




Standard (1200f)

Lumber of this grade is recommended and usually used in conjunction with "Construction" joists and planks for all the purposes served by the higher grades of the same sizes when somewhat lower strength is suitable and appearance is not a primary consideration. This lumber is graded primarily for members stressed in bending, but may also be used as tension and compression members. Appropriate working stresses for all these uses are assigned to the grade.

As in the "Construction" grade, characteristics are limited to assure a high degree of serviceability.



Utility

Lumber of this grade is recommended and widely used for joists and rafters in limited spans, for studs and framing in light construction, and in other places where a combination of utility and economy is desirable. Where they occur, the natural characteristics of lumber are so limited that each piece of this grade may be used in the form in which it is shipped.

Economy

Lumber of this grade is suitable for crating, bracing, dunnage and temporary construction. Short lengths of higher grade material may be obtained from this grade by cutting. All characteristics which do not interfere with use of the piece full length are permitted.

BEAM AND STRINGER GRADES

There are two stress grades of Douglas fir beams and stringers, "Select Structural" and "Construction"; and two non-stress grades, "Standard" and "Utility". There is one stress grade of West Coast hemlock beams and stringers, "Construction"; and two non-stress grades, "Standard" and "Utility".

POST AND TIMBER GRADES

There are two stress grades of Douglas fir posts and timbers, "Select Structural" and "Construction"; and two non-stress grades, "Standard" and "Utility". There is one stress grade of West Coast hemlock posts and timbers, "Construction"; and two non-stress grades, "Standard" and "Utility".

All Grade Stamps shown are registered, U. S. Patent Office.

GRADES

Western Red Cedar

Western Red Cedar • Western Red cedar is valued for its remarkable decay resistance, beauty, and ease of working. The heartwood is reddish brown with a distinct but not conspicuous growth ring. The wood is soft and light. It is a good insulating material, having a k value of approximately 0.74 BTU per inch of net thickness at 12% moisture content. It has very little shrinkage, holds paint well, and weathers to a pleasant gray color when left exposed. It is much used for siding, paneling, water tanks, flumes, and other specialized purposes where durability or beauty is more important than strength.

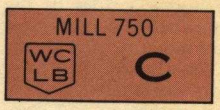
BEVEL SIDING GRADES

"Clear" Bevel Siding. Siding of this grade is free of characteristics on exposed surfaces and suitable for the most exacting exterior and interior uses where finest appearance is demanded. Pieces of this grade are vertical grain.

"A" Bevel Siding. Siding of this grade is desirable for high quality construction for painted, stained or natural finishes. Most pieces of this grade are practically clear and occasional pieces have only such minor characteristics as several scattered pin knots.

"B" Bevel Siding. Siding of this grade may contain slightly larger and more numerous knots and characteristics. It is suitable for good quality construction.

"Rustic" Bevel Siding. Siding of this grade is recommended for use as sidewall covering where the distinctive charm of a rustic appearance is desired. Pieces are graded from the resawn side.

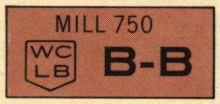


"C" Bevel Siding. Siding of this grade may have one or more characteristics which are of such size or number that the piece is not of "B" grade. It is recommended for use where excellent serviceability and paint-holding properties are desirable but appearance is not of primary importance.

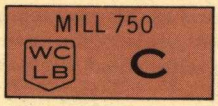
BOARD, DIMENSION AND TIMBER GRADES

There are five grades of Western Red cedar boards and dimension: "Select Merchantable", "Construction", "Standard", "Utility", and "Economy". No stress values are assigned to any of the grades of Western Red cedar dimension or timbers.

FINISH, CEILING, PANELING GRADES



"B and Better". Lumber of this grade is recommended for highest quality cabinets, interior trim and paneling with natural, stained or enameled finishes. Pieces are entirely clear or contain only such minor characteristics as an occasional pin knot.



"C". This grade is only slightly lower than "B and Better" and is often used interchangeably with that grade.

"D". Pieces of this grade may have one or more characteristics which are of such size or number that the piece is not of "C" grade. Lumber of this grade is recommended for trim, cabinet work and paneling where excellent serviceability is desirable but appearance is not of primary importance.

"Premium Sound Knot Paneling" is selected for uniformly distributed knots, burls and other natural markings which are sound and add to the decorative character of the piece. Knots form major portion of the markings.

"Sound Knot Paneling" is similar in appearance to "Premium Sound Knot Paneling" except that the characteristics are larger and more numerous.

GRADES

Sitka Spruce

Sitka Spruce • Sitka spruce is extremely resilient, shock resistant and strong for its weight. As a result, it is widely used for ladders, scaffold planks, aircraft construction, and wind tunnel propellers. It dries easily, stays in place well, is easily worked, and has moderate shrinkage. It is odorless and tasteless, therefor desirable for food containers and kitchen cabinets. Sitka spruce in the various patterns and grades is available in only limited quantities for construction purposes.

BEVEL SIDING GRADES

There are three grades of Sitka spruce bevel siding: "A", "B" and "C". "A" grade is vertical grain, "B" and "C" grades are flat grain or mixed grain.

BOARD, DIMENSION AND TIMBER GRADES

There are five grades of Sitka spruce boards and dimension: "Select Merchantable", "Construction", "Standard", "Utility" and "Economy". No stress values are assigned to any of the grades of Sitka spruce dimension or timbers.

FINISH GRADES

There are three grades of Sitka spruce finish: "B and Better", "C" and "D". All are manufactured in flat grain and/or vertical grain.

For more information or additional free copies of this folder write:

WEST COAST LUMBERMEN'S ASSOCIATION

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